



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



## Photometric Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002

Prepared For  
**Auroralight Inc**  
2742 Loker Avenue West  
Carlsbad  
CA, 92010  
United States

Catalog Number  
**HPL8-2-27**  
Order Number  
**11745044**  
Test Number  
**11745044.21**

Test Date

2017-05-15

Prepared By

Javier Caban, Technician

Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Conical 8" copper shade with clear glass lens, cylindrical copper stem and brass base

**Lamp:** 64 white LEDs

**Mounting:** Path/Area

**Ballast/Driver:** Integrated

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 8.00 in.

**Summary of Results**

Roadway Classification: Type V, Very Short  
Cutoff Classification: Semicutoff  
BUG Rating: B0 U1 G0

**Test Conditions**

Test Temperature:	25.1 °C
Voltage:	12.01 VAC
Current:	0.3033 A
Power:	2.208 W
Power Factor:	0.606
Frequency:	60 Hz
Current THD:	85.5 %

Tested in 30 planes left side, 30 planes right side, left and right averaged  
Vertical test increments are 2.5 degrees  
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	12.01 VAC	0.3033 A	2.208 W	0.606	60 Hz	85.5 %

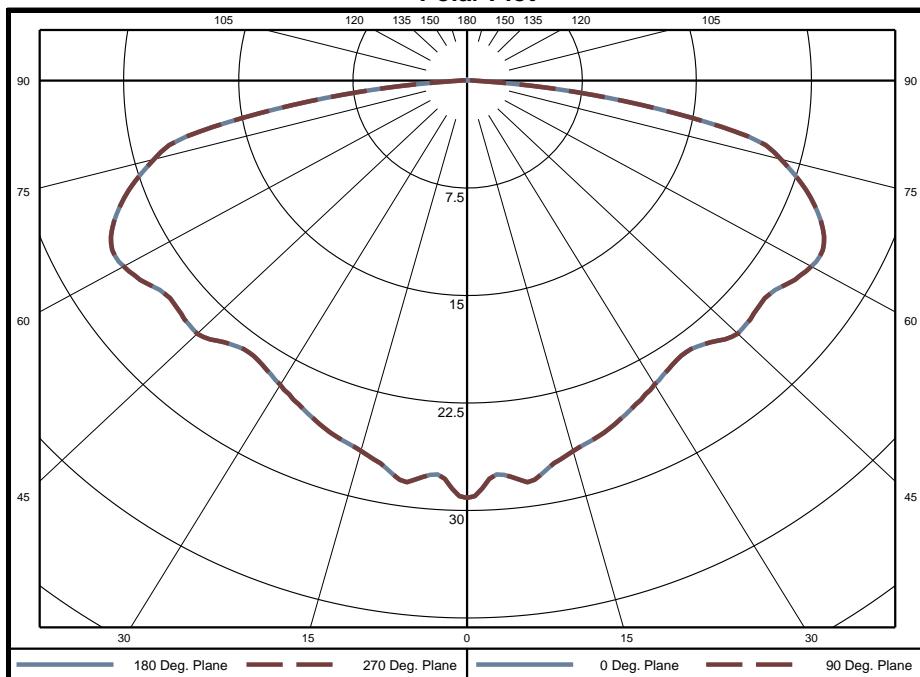
### Summary of Results

#### Spacing Criteria

0-180: 1.27  
90-270: 1.27

Total Lumen Output: 132.2 Lumens  
Luminaire Efficacy: 59.9 lm/w  
Maximum Candela: 29 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.67	0.5%	60-65	12.64	9.6%	120-125	0.01	0.0%
5-10	2.01	1.5%	65-70	12.59	9.5%	125-130	0.01	0.0%
10-15	3.23	2.4%	70-75	11.80	8.9%	130-135	0.01	0.0%
15-20	4.36	3.3%	75-80	10.10	7.6%	135-140	0.01	0.0%
20-25	5.40	4.1%	80-85	5.13	3.9%	140-145	0.01	0.0%
25-30	6.30	4.8%	85-90	0.81	0.6%	145-150	0.01	0.0%
30-35	7.11	5.4%	90-95	0.15	0.1%	150-155	0.01	0.0%
35-40	7.95	6.0%	95-100	0.06	0.0%	155-160	0.01	0.0%
40-45	9.09	6.9%	100-105	0.03	0.0%	160-165	0.01	0.0%
45-50	10.06	7.6%	105-110	0.03	0.0%	165-170	0.01	0.0%
50-55	10.78	8.2%	110-115	0.02	0.0%	170-175	0.00	0.0%
55-60	11.82	8.9%	115-120	0.02	0.0%	175-180	0.00	0.0%

Zone	Lumens	% of Luminaire
0-40	37	28.0%
0-60	79	59.6%
0-90	132	99.7%
90-180	0	0.3%



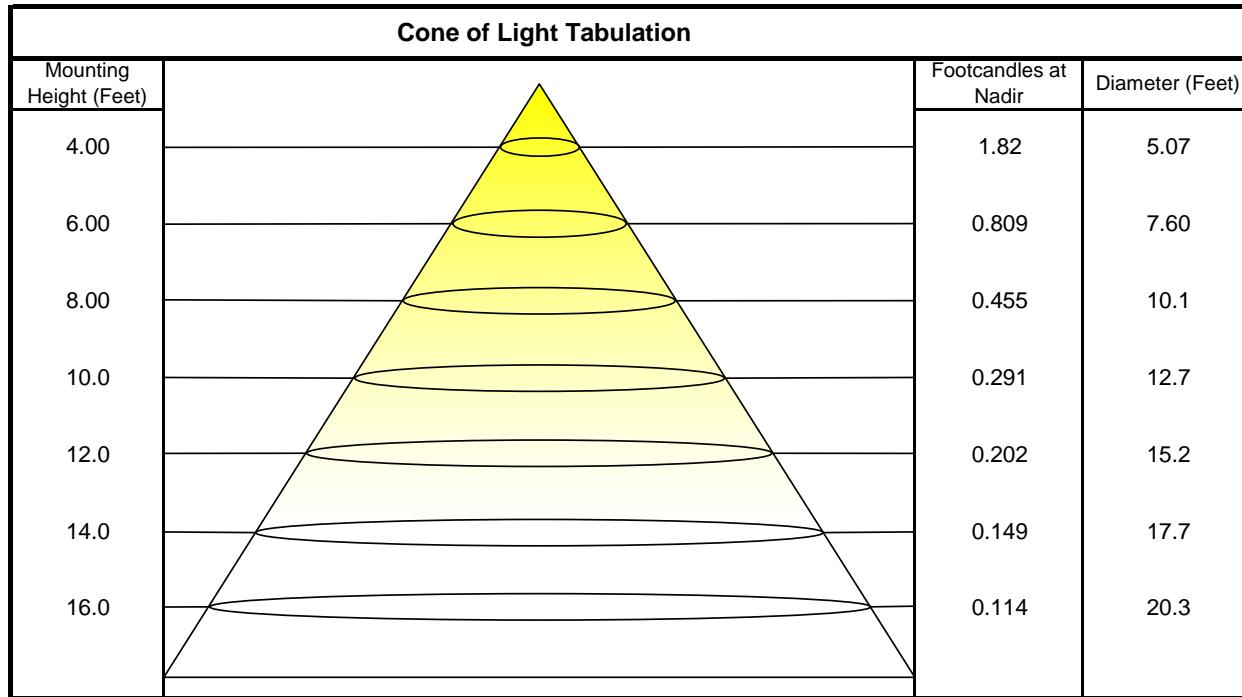


### Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50				30				10				0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0		
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																				
0	157	157	157	157	154	154	154	154	147	147	147	140	140	140	135	135	135	132			
1	139	131	123	116	135	127	121	114	122	116	111	116	111	107	111	107	104	101			
2	123	109	98	88	119	106	96	87	101	92	85	97	89	83	92	86	81	77			
3	110	93	80	69	106	91	78	68	86	76	67	82	73	66	79	71	64	61			
4	99	80	67	56	96	78	66	56	75	64	55	71	62	54	68	60	53	49			
5	90	71	57	47	87	69	56	46	66	54	46	63	53	45	60	51	44	41			
6	83	63	49	40	80	61	49	39	59	47	39	56	46	38	54	45	38	35			
7	76	56	43	34	74	55	43	34	53	42	34	51	41	33	49	40	33	30			
8	71	51	39	30	69	50	38	30	48	37	30	46	36	29	45	36	29	26			
9	66	47	35	27	64	46	34	26	44	34	26	43	33	26	41	32	26	23			
10	62	43	31	24	60	42	31	24	41	31	24	39	30	23	38	29	23	21			

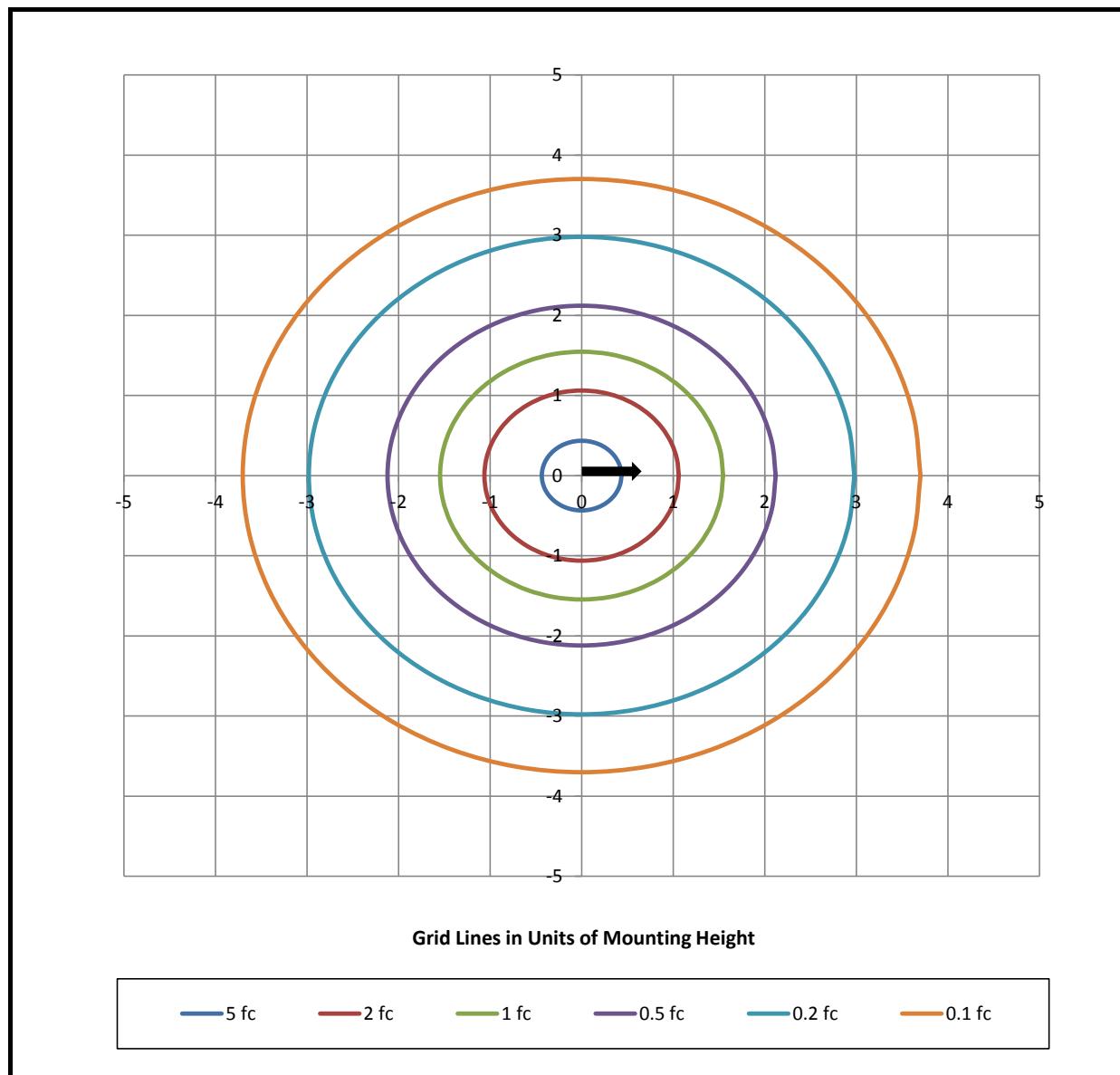
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	29.12 Candela
Central Cone Intensity:	28 Candela
Beam Flux:	126.1 Lumens
Beam Angle (0-180):	160.2 Degrees
Beam Angle (90-270):	160.2 Degrees
Field Angle (0-180):	171.5 Degrees
Field Angle (90-270):	171.5 Degrees





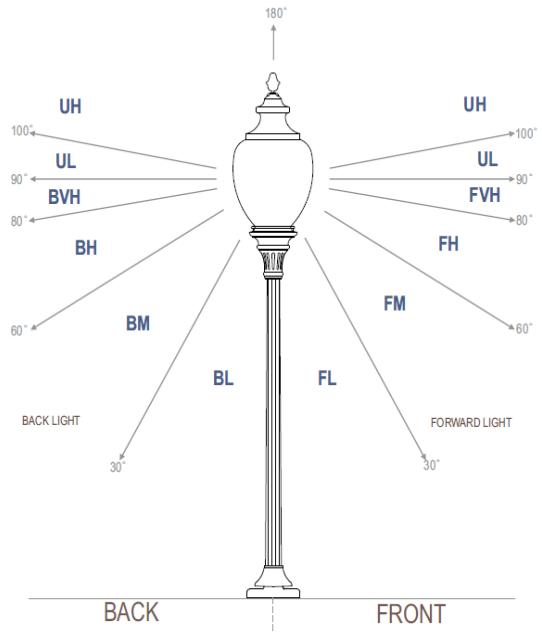
### ISOFootcandle Plot

Mounting Height - 2 Feet





**IES "BUG" Rating**  
(Back Light, Uplight, Glare)  
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	11.0	8.3%
FM	(30-60)	28.4	21.5%
FH	(60-80)	23.5	17.8%
FVH	(80-90)	3.0	2.3%
BL	(0-30)	11.0	8.3%
BM	(30-60)	28.4	21.5%
BH	(60-80)	23.5	17.8%
BVH	(80-90)	3.0	2.3%
UL	(90-100)	0.2	0.2%
UH	(100-180)	0.2	0.2%
Total		132.4	100.0%
<b>BUG Rating</b>		<b>B0 U1 G0</b>	